PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 3/11/2024 6:53:19 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-200292-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

Generated 3/11/2024 6:53:19 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-200292-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-200292-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA
Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

4

5

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Case Narrative

Client: Arcadis U.S., Inc. Project: Ford LTP - Off Site

Job ID: 240-200292-1 Eurofins Cleveland

Job Narrative 240-200292-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- · Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/1/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Cleveland

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Job ID: 240-200292-1

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Method Summary

Client: Arcadis U.S., Inc. Job ID: 240-200292-1

Project/Site: Ford LTP - Off Site

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-200292-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-200292-1	TRIP BLANK_40	Water	02/28/24 00:00	03/01/24 08:00
240-200292-2	MW-158S_022824	Water	02/28/24 14:54	03/01/24 08:00

Detection Summary

Client: Arcadis U.S., Inc. Job ID: 240-200292-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_40 Lab Sample ID: 240-200292-1 No Detections.

Client Sample ID: MW-158S_022824 Lab Sample ID: 240-200292-2

No Detections.

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200292-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_40

Lab Sample ID: 240-200292-1 Date Collected: 02/28/24 00:00

Matrix: Water

Date Received: 03/01/24 08:00

Method: SW846 8260D - Volati	ile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/07/24 20:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/07/24 20:41	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/07/24 20:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/07/24 20:41	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/07/24 20:41	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/07/24 20:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137			-		03/07/24 20:41	1
4-Bromofluorobenzene (Surr)	85		56 ₋ 136					03/07/24 20:41	1
Toluene-d8 (Surr)	102		78 - 122					03/07/24 20:41	1
Dibromofluoromethane (Surr)	97		73 - 120					03/07/24 20:41	1

Eurofins Cleveland

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200292-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-158S_022824

Date Collected: 02/28/24 14:54

Lab Sample ID: 240-200292-2 Matrix: Water

03/08/24 01:42

03/08/24 01:42

Date Received: 03/01/24 08:00

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/07/24 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			68 - 127			_		03/07/24 13:17	1

Method: SW846 8260D - Volati	ile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/08/24 01:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/24 01:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 01:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/24 01:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 01:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/08/24 01:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			_		03/08/24 01:42	1
4-Bromofluorobenzene (Surr)	85		56 ₋ 136					03/08/24 01:42	1

78 - 122

73 - 120

101

Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200292-1

Project/Site: Ford LTP - Off Site

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-200286-D-5 MS	Matrix Spike	98	105	105	97
240-200286-D-5 MSD	Matrix Spike Duplicate	97	103	103	95
240-200292-1	TRIP BLANK_40	104	85	102	97
240-200292-2	MW-158S_022824	106	85	101	99
LCS 240-605359/4	Lab Control Sample	97	101	105	96
MB 240-605359/6	Method Blank	104	86	102	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-200292-2	MW-158S_022824	101	
500-246857-B-2 MS	Matrix Spike	108	
500-246857-B-2 MSD	Matrix Spike Duplicate	115	
LCS 240-605248/5	Lab Control Sample	106	
MB 240-605248/7	Method Blank	105	
Surrogate Legend			

DCA = 1,2-Dichloroethane-d4 (Surr)

Eurofins Cleveland

Job ID: 240-200292-1

Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-605359/6

Matrix: Water

1,1-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

Analyte

Analysis Batch: 605359

Client Sample ID: Method Blank Prep Type: Total/NA

03/07/24 18:10

MB MB Dil Fac Result Qualifier RL MDL Unit D Prepared Analyzed 1.0 U 1.0 0.49 ug/L 03/07/24 18:10 1.0 U 1.0 0.46 ug/L 03/07/24 18:10 1.0 U 03/07/24 18:10 1.0 0.44 ug/L 1.0 U 1.0 0.51 ug/L 03/07/24 18:10 1.0 U 1.0 0.44 ug/L 03/07/24 18:10

0.45 ug/L

1.0 U MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	104		62 - 137		03/07/24 18:10	1
	4-Bromofluorobenzene (Surr)	86		56 - 136		03/07/24 18:10	1
١	Toluene-d8 (Surr)	102		78 - 122		03/07/24 18:10	1
İ	Dibromofluoromethane (Surr)	95		73 - 120		03/07/24 18:10	1

1.0

Lab Sample ID: LCS 240-605359/4

Matrix: Water

Analysis Batch: 605359

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 95 63 - 134 1,1-Dichloroethene 25.0 23.7 ug/L cis-1,2-Dichloroethene 25.0 25.6 ug/L 103 77 - 123 Tetrachloroethene 25.0 24.3 ug/L 97 76 - 123 75 - 124 trans-1,2-Dichloroethene 25.0 25.3 ug/L 101 Trichloroethene 25.0 23.7 95 70 - 122 ug/L Vinyl chloride 12.5 9.51 ug/L 76 60 - 144

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	101		56 ₋ 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Lab Sample ID: 240-200286-D-5 MS

Matrix: Water

Analysis Batch: 605359

Client Sample ID: Matrix Spike Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	200	U	5000	5170		ug/L		103	56 - 135	
cis-1,2-Dichloroethene	5800		5000	10300		ug/L		90	66 - 128	
Tetrachloroethene	200	U	5000	4740		ug/L		95	62 - 131	
trans-1,2-Dichloroethene	180	J	5000	5140		ug/L		99	56 - 136	
Trichloroethene	350		5000	4950		ug/L		92	61 - 124	
Vinyl chloride	2300		2500	3470		ug/L		45	43 - 157	

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	105		56 - 136
Toluene-d8 (Surr)	105		78 - 122

Eurofins Cleveland

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Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Job ID: 240-200292-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 240-200286-D-5 MS

Matrix: Water

Analysis Batch: 605359

Client Sample ID: Matrix Spike Prep Type: Total/NA

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 97 73 - 120

Lab Sample ID: 240-200286-D-5 MSD

Matrix: Water

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analysis Batch: 605359

MSD MSD %Rec RPD Sample Sample Spike RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Limit 1,1-Dichloroethene 200 5000 4890 ug/L 98 56 - 135 6 26 cis-1,2-Dichloroethene 5800 5000 10600 95 66 - 128 ug/L 3 14 Tetrachloroethene 200 U 5000 4910 ug/L 98 62 - 131 20 trans-1.2-Dichloroethene 5000 ug/L 15 180 5310 102 56 - 136 3 Trichloroethene 350 5000 5080 ug/L 95 61 - 124 3 15 Vinyl chloride 2300 2500 4250 ug/L 43 - 157 20 24

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	103		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-605248/7

Matrix: Water

Analysis Batch: 605248

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 03/07/24 10:06 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 105 68 - 127 03/07/24 10:06

Lab Sample ID: LCS 240-605248/5

Analyte

1,4-Dioxane

Matrix: Water Prep Type: Total/NA Analysis Batch: 605248 Spike LCS LCS %Rec

Result

8.35

Qualifier

Unit

ug/L

Added

10.0

LCS LCS %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 106

Lab Sample ID: 500-246857-B-2 MS

Matrix: Water

Analysis Batch: 605248

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample

Limits

75 - 121

%Rec

83

Prep Type: Total/NA

randiyolo Batolii oooli io									
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane	2.0	U	10.0	8.26		ua/L		83	20 - 180

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QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200292-1 Project/Site: Ford LTP - Off Site

Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		68 - 127

_		
Lab Sample	ID: 500-2468	857-B-2 MSD

MSD MSD

115

Qualifier

%Recovery

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Analysis Batch: 605248

1,2-Dichloroethane-d4 (Surr)

Matrix: Water

Surrogate

RPD Sample Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier Limits RPD Limit Unit D %Rec 2.0 U 1,4-Dioxane 10.0 8.06 81 20 - 180 20 ug/L 2

Limits

68 - 127

QC Association Summary

Client: Arcadis U.S., Inc. Job ID: 240-200292-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 605248

Lab Sample ID 240-200292-2	Client Sample ID MW-158S_022824	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-605248/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-605248/5	Lab Control Sample	Total/NA	Water	8260D SIM	
500-246857-B-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
500-246857-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 605359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200292-1	TRIP BLANK_40	Total/NA	Water	8260D	<u> </u>
240-200292-2	MW-158S_022824	Total/NA	Water	8260D	
MB 240-605359/6	Method Blank	Total/NA	Water	8260D	
LCS 240-605359/4	Lab Control Sample	Total/NA	Water	8260D	
240-200286-D-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-200286-D-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-200292-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_40

Lab Sample ID: 240-200292-1 Date Collected: 02/28/24 00:00

Matrix: Water

Date Received: 03/01/24 08:00 Dilution Batch Batch Batch

Prepared Method Prep Type Туре Run Factor **Number Analyst** Lab or Analyzed Total/NA 8260D 605359 CDG EET CLE 03/07/24 20:41 Analysis

Client Sample ID: MW-158S_022824 Lab Sample ID: 240-200292-2

Date Collected: 02/28/24 14:54 **Matrix: Water**

Date Received: 03/01/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	605359	CDG	EET CLE	03/08/24 01:42
Total/NA	Analysis	8260D SIM		1	605248	MDH	EET CLE	03/07/24 13:17

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Arcadis U.S., Inc. Job ID: 240-200292-1 Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24 *
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	06-30-24
New York	NELAP	10975	04-01-24
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

 $^{^{\}star}\,\text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Chain of Custody Record

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Client Contact	TestAmerica Labora	tory location: ory program:			DW		NPDI			RCRA		- Oth		-2703					_	•		2	i e	TADER'IT ENVIRONMENTAL TESTIN
Company Name: Arcadis																								TestAmerica Laboratories, In-
Address: 28550 Cabot Drive, Suite 500	Client Project N	1anager: Kris	H Inskey	'		Site	Cont	act: (Christi	na Weav	er			Lab	Conta	et: MIk	e D elf	1 onle	0					COC Na
City/State/Zip: Nov1, M1, 48377	Telephone: 248	-994-2240				Tele	ph on	e: 24	8-994-	2240				Tele	ph on e:	330-4	97-939	0ó						1 of 1 COCs
	Em all: kristoff	er.hinskey@ar	cadls.co	m			Analy	ysis T	urnard	ound Tim	c				_		A	nalys	es			, , ,		For lab use only
Phone: 248-994-2240	Sampler Name					TÁŤ	il dille	ereni (n	om below	<u> </u>														Walk-in chient
Project Name: Ford LTP Off-Site	Ro	becca	(05)	Figo	rn	,	0 day		□ 3 v															Lab sampling
roject Number: 30167538.402.04	Method of Ship	7 4 4 4	<u> </u>	1 3/0		٦.	U Gay		T I	veek	5	ي اح							SIM					cab sampring
О и 30167538.402.04	Shipping/Track	Ing No:					<u> </u>		□ 1 d		The CV / N	Composite=C/Grab=G	l Q	82600	Trans-1,2-DCE 8260D			Vinyl Chloride 82 60D	8260D S					Job/SDG Na
				M at	rix		Cont	alners	s & Pre	ervatives	5	ite=(828	SG	,2-D(98	8260D	lorid	aue					
Sample I dentification	Sample Date	Sample Time	Air	Sediment	Solid Other:	нузон	HN 03	HCI	NaOH ZnA o	Unpres Other:	Niend	Сошро	1,1-DCE 8260D	as-1,2-DCE 8260D	Trans-1	PCE 8260D	TCE 82	Vinyl Ch	1,4-Dioxane 8260D					Sample Specific Notes / Special Instructions:
TRIP BLANK_ 40			1	1				1			N	1 G	X	X	Х	Х	Х	X						1 Trip Blank
MW-1585-022824	2]28/24	1454	į	٥				6			1	16	X	X	X	X	Χ	X	X					3 VOAs for 8260D 3 VOAs for 8260D SIM
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Possible Hazard Identification	luihant = 5 :					S				A fee ma				oles ar				an 1				<u></u>		
Pon-Hazard Flammable Skin pecial Instructions/QC Requirements & Comments: Sample Address: 34456 Blactin Submit all results through Cadena at jtomalia@cade evel IV Reporting requested.	enaco.com. Cadena #		Unknow	wn		<u> </u>	R	leturn	1 10 Cli	ent	✓ Disp	osal B	y Lab		A	rchive	For		М	onths				
telinguished by:	Company	adis	Da 2	Id Tim	1/24 1/24	1102	5	R	R ecei ve	d by:	Colo	151	ימה המה	a gl			Comp	an y: A/	<i>COL</i>	dis				Dale/Time: 2/28/24 1625
Relinquished by: Oha MA A A	Company	21/00	Da	le/Tim	ne:	10	10	R	eceive	dby /	1	At		7			Comp	iny:	-	7,	+-			Date/Time:

Relinquished by:

03/01/24

Received in Laboratory by:

Company:

3/11/2024

- 2 Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity
 -Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?
- Shippers' packing slip attached to the cooler(s)? -Were tamper/custody seals intact and uncompromised?
- Did custody papers accompany the sample(s)?
- Were the custody papers relinquished & signed in the appropriate place?
- Was/were the person(s) who collected the samples clearly identified on the COC?
- Did all bottles arrive in good condition (Unbroken)?
- Could all bottle labels (ID/Date/Time) be reconciled with the COC?
- For each sample, does the COC specify preservatives (Y # of container

ample type of grab/com

ले

Oil and Grease TOC

VOAs

Receiving: checked for pH by

Tests that are not

N Z

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- 10. Were correct bottle(s) used for the test(s) indicated?
- 11. Sufficient quantity received to perform indicated analyses?
- 12. Are these work share samples and all listed on the COC?
- If yes, Questions 13-17 have been checked at the originating laboratory
- 13. Were all preserved sample(s) at the correct pH upon receipt?
- Were VOAs on the COC?
- Were air bubbles >6 mm in any VOA vials?
- Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 0041 30 i
- Was a LL Hg or Me Hg trip blank present?
- ঠ via Verbal Voice Mail Other

Contacted PM

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	ISCREPANCIES	additional next page	Samples processed by:

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	
19. SAMPLE CONDITION	
Sample(s) were received in a broken container.	
Sample(s)were received with bubble >6 mm in diameter. (Notify PM)	
20. SAMPLE PRESERVATION	
Sample(s) were further preserved in the laboratory. Time preserved: Preservative(s) added/Lot number(s):	
VIOA Comple Preservation - Date/Time VIOAs Fragen	

pH Strip Lo# HC316719

Yes

DATA VERIFICATION REPORT



March 11, 2024

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631

Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater

Project number: 30167538.402.04

Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 200292-1 Sample date: 2024-02-28

Report received by CADENA: 2024-03-11

Initial Data Verification completed by CADENA: 2024-03-11

Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
Е	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 200292-1

		Sample Name:	TRIP BLA	NK_40			MW-158	S_02282	4	
		Lab Sample ID:	2402002	921			2402002	922		
		Sample Date:	2/28/202	24			2/28/202	24		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-8260	<u>DSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-200292-1

CADENA Verification Report: 2024-03-11

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53239R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-200292-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Ana	lysis
Sample ID	Labib	IVIALITA	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_40	240-200292-1	Water	02/28/2024		X	
MW-158S_022824	240-200292-2	Water	02/28/2024		Х	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Rep	orted		mance otable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
Requested analyses and sample results		X		Х	
Master tracking list		X		Х	
4. Methods of analysis		X		Х	
5. Reporting limits		X		Х	
6. Sample collection date		X		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- · Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	oorted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation					
System performance and column resolution		X		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Dilip Kumar

SIGNATURE:

DATE: March 23, 2024

PEER REVIEW: Andrew Korycinski

DATE: April 2, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

TestAmerica Laboratory location: Brighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

27/27

TestAmerica

Client Contact mpany Name: Arcadis	Regulat	ory program:		- DW		NPD	ES	R	CRA	0	ther										
<u> </u>																				The section of the	A
	Client Project M	lanager: Kris	H Inskey		Site	Cont	act: Ch	ristina W	eaver			Lab C	Contac	t: MIk	e Dell	M onico	, <u> </u>			TestAmerica L	aporatories,
dress: 28550 Cabot Drive, Suite 500	Telephone: 248-	-994-2240			Tal	enh ne	e: 249-0	994-2240				Teles	ahone.	330-4	97-024	26					
State/Zip: Novi, MI, 48377												Leier	on on vi	JJ0~4						1 of 1 COCs	
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200292-1

Client Sample ID: TRIP BLANK_40

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-200292-1

Date Collected: 02/28/24 00:00 **Matrix: Water** Date Received: 03/01/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/07/24 20:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/07/24 20:41	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/07/24 20:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/07/24 20:41	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/07/24 20:41	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/07/24 20:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137					03/07/24 20:41	1
4-Bromofluorobenzene (Surr)	85		56 ₋ 136					03/07/24 20:41	1
Toluene-d8 (Surr)	102		78 - 122					03/07/24 20:41	1
Dibromofluoromethane (Surr)	97		73 - 120					03/07/24 20:41	

Client Sample ID: MW-158S_022824 Lab Sample ID: 240-200292-2

Date Collected: 02/28/24 14:54 Date Received: 03/01/24 08:00

Dibromofluoromethane (Surr)

Method: SW846 8260D SIM	- Volatile Orga	anic Comp	ounds (GC/N	/IS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/07/24 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d/ (Surr)	101		68 127			_		03/07/24 13:17	1

1,2-Dichloroethane-d4 (Surr)	101		68 - 127					03/07/24 13:17	1
- Method: SW846 8260D - Vo	olatile Organic	Compoun	ds by GC/MS	i					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/08/24 01:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/24 01:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 01:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/24 01:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 01:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/08/24 01:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			-		03/08/24 01:42	1
4-Bromofluorobenzene (Surr)	85		56 - 136					03/08/24 01:42	1
Toluene-d8 (Surr)	101		78 - 122					03/08/24 01:42	1

73 - 120

03/08/24 01:42

Matrix: Water